

First Hit☐ Generate Collection☐ Print

L2: Entry 45 of 64

File: DWPI

Aug 13, 1993

DERWENT-ACC-NO: 1993-291122

DERWENT-WEEK: 200201

COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Lithium secondary battery has anode active material containing predetermined chemical compound provided with hexagonal crystal structure

PATENT-ASSIGNEE:

ASSIGNEE

CODE

MATSUSHITA ELEC IND CO LTD

MATU

PRIORITY-DATA: 1992JP-0010670 (January 24, 1992)

☐ Search Selected☐ Search ALL☐ Clear

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

☐ JP 05205741 A

August 13, 1993

009 H01M004/58

☐ JP 3082388 B2

August 28, 2000

009 H01M004/58

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

JP 05205741A

January 24, 1992

1992JP-0010670

JP 3082388B2

January 24, 1992

1992JP-0010670

JP 3082388B2

JP 5205741

Previous Publ.

INT-CL (IPC): H01 M 4/02; H01 M 4/58; H01 M 10/40

ABSTRACTED-PUB-NO: JP 3082388B

BASIC-ABSTRACT:

NOVELTY - Anode (1) and a cathode (2) are made to contact a lithium ionic conductive electrolyte (4). The positive electrode

h e b

b g e e f c

e h

e g e

e g e

cc

c

contains an active material formed by mixing lithium peroxide with cobalt oxide. The mixture is heat treated at 800 deg. C or less and cooled rapidly to obtain LiCoO<sub>2</sub> with hexagonal crystal structure.

USE - Lithium secondary battery e.g. lithium cell.

ADVANTAGE - Improves charging and discharging efficiency.

DESCRIPTION OF DRAWING(S) - The drawing shows the sectional view of lithium cell.

anode 1

cathode 2

lithium ionic conductive electrolyte 4  
ABSTRACTED-PUB-NO:

JP 05205741A

EQUIVALENT-ABSTRACTS:

NOVELTY - Anode (1) and a cathode (2) are made to contact a lithium ionic conductive electrolyte (4). The positive electrode contains an active material formed by mixing lithium peroxide with cobalt oxide. The mixture is heat treated at 800 deg. C or less and cooled rapidly to obtain LiCoO<sub>2</sub> with hexagonal crystal structure.

USE - Lithium secondary battery e.g. lithium cell.

ADVANTAGE - Improves charging and discharging efficiency.

DESCRIPTION OF DRAWING(S) - The drawing shows the sectional view of lithium cell.

anode 1

cathode 2

lithium ionic conductive electrolyte 4

CHOSEN-DRAWING: Dwg.2/7 Dwg.2/7

TITLE-TERMS: LITHIUM SECONDARY BATTERY ANODE ACTIVE MATERIAL CONTAIN PREDETERMINED CHEMICAL COMPOUND HEXAGON CRYSTAL STRUCTURE

DERWENT-CLASS: L03 X16

CPI-CODES: L03-E01B5;

EPI-CODES: X16-B01F1; X16-E01C1;

h e b b g e e f c e h

e ge e ge cc

c

Record Display Form

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2001-193442

Non-CPI Secondary Accession Numbers: N2001-489966

h e b b g e e e f c e h

e ge

e ge

cc

c

First Hit

☐

L2: Entry 38 of 64

File: DWPI

Dec 3, 1996

DERWENT-ACC-NO: 1997-072989  
DERWENT-WEEK: 199707  
COPYRIGHT 2004 DERWENT INFORMATION LTD

TITLE: Lithium cpd. oxide - used as active material for anode(s) of lithium sec. batteries

PATENT-ASSIGNEE:  
ASSIGNEE  
NIPPON CHEM IND CO LTD  
CODE  
NIPC

PRIORITY-DATA: 1995JP-0144143 (May 19, 1995)

PATENT-FAMILY:  
PUB-NO  
☐ JP 08319120 A  
PUB-DATE  
December 3, 1996  
LANGUAGE  
PAGES  
013  
MAIN-IPC  
C01G053/00

APPLICATION-DATA:  
PUB-NO  
JP 08319120A  
APPL-DATE  
May 19, 1995  
APPL-NO  
1995JP-0144143  
DESCRIPTOR

INT-CL (IPC): C01 G 53/00; H01 M 4/02; H01 M 4/58; H01 M 10/40

ABSTRACTED-PUB-NO: JP 08319120A  
BASIC-ABSTRACT:

Cpd. oxide of lithium of formula  $\text{Li}_x\text{Ni}_{1-y}\text{MeyO}_2$  (I) has lithium content at the 3a site measured by x-ray diffraction of at least 90% and the purity of the above cpd. oxide of lithium belonging to a hexagonal layered cpd. (space gp. R-3m) is at least 90% (where Me = transition metal except  $0 < x < 1.1$ , and,  $0 < y < 0.6$ ).

USE - The cpd. oxide of lithium is used as an active material for the anodes of lithium sec. batteries.

h e b b g e e f c e h e g e cc c

ADVANTAGE - When used as an active substance for the positive electrodes of lithium secondary batteries, the cpd. oxide of lithium provides high energy density with high discharge capacity and retention.

CHOSEN-DRAWING: Dwg.0/10

TITLE-TERMS: LITHIUM COMPOUND OXIDE ACTIVE MATERIAL ANODE LITHIUM SEC BATTERY

DERWENT-CLASS: E31 L03 X16

CPI-CODES: E33-G; L03-E01B5;

EPI-CODES: X16-B01F1; X16-E01C1;

CHEMICAL-CODES:

Chemical Indexing M3 \*01\*

Fragmentation Code

A103 A428 A940 C108 C550 C730 C800 C801 C802 C803

C804 C805 M411 M417 M781 M903 M904 Q454 R043

Markush Compounds

199707-C1701-U

Chemical Indexing M3 \*02\*

Fragmentation Code

A103 A400 A428 A500 A600 A940 C108 C550 C730 C800

C801 C802 C803 C804 C805 M411 M417 M781 M903 M904

Q454 R043

Markush Compounds

199707-C1702-U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1997-023466

Non-CPI Secondary Accession Numbers: N1997-060613